

Claims

1. Pyromechanical battery pole disconnect element, comprising a housing (1) in which an electrical conductor is located, a pyrotechnic active element (14) including a breaking piston with a disconnect element (7) to sever the electrical conductor at an isolating point (11), and a pyrotechnic charge to drive the disconnect element (7), characterized in that all the current-conducting components except the active element (14) are combined to form a one-piece battery terminal element (5).

2. Battery pole disconnect element according to Claim 1, characterized in

- that the battery terminal element (5) has a clamping device (12) for connection to a battery terminal;
- that two arms (15a, 15b) oriented at essentially right angles relative to each other extend from the clamping device (12);
- that the isolating point (11) is located on the first arm (15a), and beyond the isolating point and opposite the clamping device (12) an attachment element (9) is located on this arm for connection to the systems to be disconnected in an emergency, and;
- that a second attachment element (10) is located on the second arm (15b) for connection to the systems to be disconnected in an emergency.

3. Battery pole disconnect element according to Claims 1 or 2, characterized in that the housing (1) has bracing ribs and/or link segments (2, 3), and that the battery terminal element (5) and the active element (14) can be inserted into these bracing ribs and/or link segments (2, 3).

4. Battery pole disconnect element according to Claims 2 or 3, characterized in that an enlarged segment (6) is located on the first arm (15a) between the isolating point (11) and the first attachment element (9).

5. Battery pole disconnect element according to Claim 4, characterized in that the enlarged segment (6) is located between ribs (3) in the housing so as to prevent the separated end of the arm (15a) from falling out.

6. Battery pole disconnect element according to one of Claims 2 through 5, characterized in that the second attachment element (10) is a support screw.

7. Battery pole disconnect element according to one of Claims 2 through 6, characterized in that the first attachment element (9) is an attachment hole.

8. Battery pole disconnect element according to one of Claims 2 through 7, characterized in that only the attachment elements (9, 10) protrude from the battery terminal element (5) out of the housing (1).

9. Battery pole disconnect element according to one of Claims 2 through 8, characterized in that the arms (15a, 15b) of the battery terminal element (5) are ribbon-shaped.

10. Battery pole disconnect element according to one of Claims 1 through 9, characterized in that the housing (1) is fabricated out of a fiber-reinforced plastic.